

Title (en)

Structure of mounting of exhaust gas sampling pipe in outboard engine system

Title (de)

Anbauvorrichtung für ein Abgasentnahmerohr an einen Aussenbordmotor

Title (fr)

Structure de montage d'un tuyau d'échantillonnage de gaz d'échappement dans un moteur hors-bord

Publication

EP 1116865 B1 20040804 (EN)

Application

EP 01100834 A 20010115

Priority

JP 2000010386 A 20000117

Abstract (en)

[origin: EP1116865A2] In an outboard engine system in which a passage defining member having a passage wall defining an exhaust gas passage for guiding an exhaust gas from an engine is provided at its outer wall with a recess and a seal surface surrounding the recess; a fluid passage isolated from the exhaust gas passage is defined between the recess and a lid member which is mounted to the outer wall of the passage defining member with a seal member interposed between the lid member and the seal surface; and an exhaust gas sampling pipe is inserted into the exhaust gas passage through an insertion bore provided in the passage defining member to open into the seal surface, it is arranged that the seal member is formed to surround an opening at an outer end of the insertion bore, and the exhaust gas sampling pipe is gas-tightly fixed in the lid member to extend through the lid member. Thus, the exhaust gas sampling pipe can be inserted into the exhaust gas passage, while avoiding an increase in size of the lid member. <IMAGE>

IPC 1-7

F01N 7/00; **F01N 7/12**; **F01N 3/04**; **F01P 3/20**; **F02B 61/04**

IPC 8 full level

F01N 13/12 (2010.01); **F02B 61/04** (2006.01); **F02M 1/12** (2006.01); **F02M 35/14** (2006.01); **F02M 9/06** (2006.01); **F02M 35/16** (2006.01)

CPC (source: EP US)

F01N 13/00 (2013.01 - EP US); **F01N 13/12** (2013.01 - EP US); **F02B 61/045** (2013.01 - EP US); **F02M 1/12** (2013.01 - EP US); **F02M 35/10321** (2013.01 - EP US); **F02M 35/1233** (2013.01 - EP US); **F02M 35/14** (2013.01 - EP US); **F02M 9/06** (2013.01 - EP US); **F02M 35/112** (2013.01 - EP US); **F02M 35/168** (2013.01 - EP US)

Cited by

EP1852589A3; US7621791B2; EP1852589A2

Designated contracting state (EPC)

CH DE LI SE

DOCDB simple family (publication)

EP 1116865 A2 20010718; **EP 1116865 A3 20030319**; **EP 1116865 B1 20040804**; DE 60104572 D1 20040909; DE 60104572 T2 20050811; JP 2001200723 A 20010727; JP 4331845 B2 20090916; US 2002019180 A1 20020214; US 6340322 B1 20020122

DOCDB simple family (application)

EP 01100834 A 20010115; DE 60104572 T 20010115; JP 2000010386 A 20000117; US 75407801 A 20010105